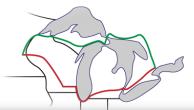
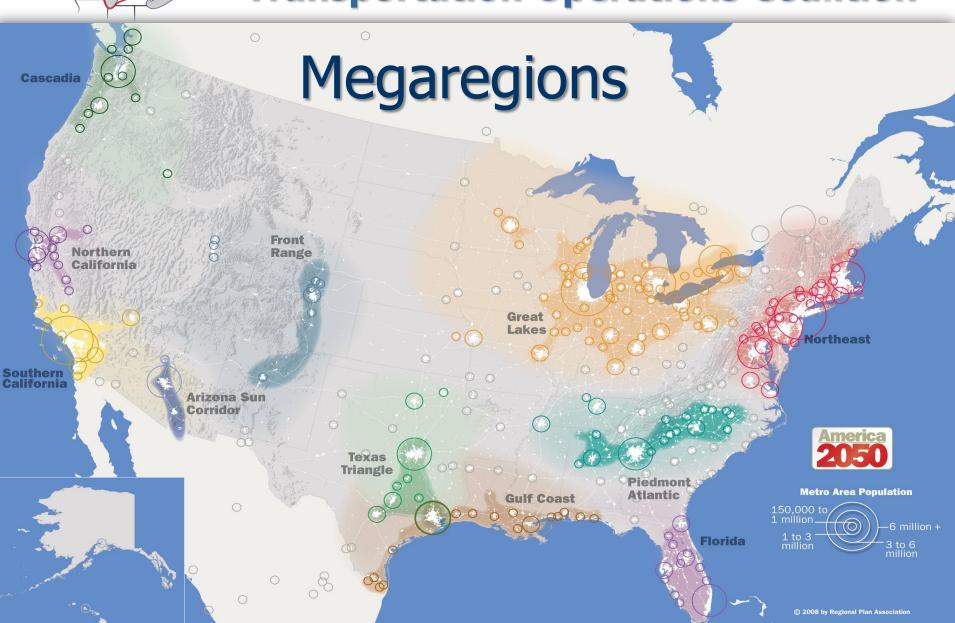


Great Lakes Regional Transportation Operations Coalition (GLRTOC)

Lake Michigan Interstate Gateway Alliance (LMIGA)

Annual Work Zone Review February 4, 2015







GLRTOC Partners & Mission

Founded in 2010

- Chicago Skyway / Indiana Toll Road
- Illinois DOT
- Illinois Tollway
- Indiana DOT
- Iowa DOT
- Michigan DOT
- Ministry of Transport Ontario
- Minnesota DOT
- Ohio DOT
- Wisconsin DOT













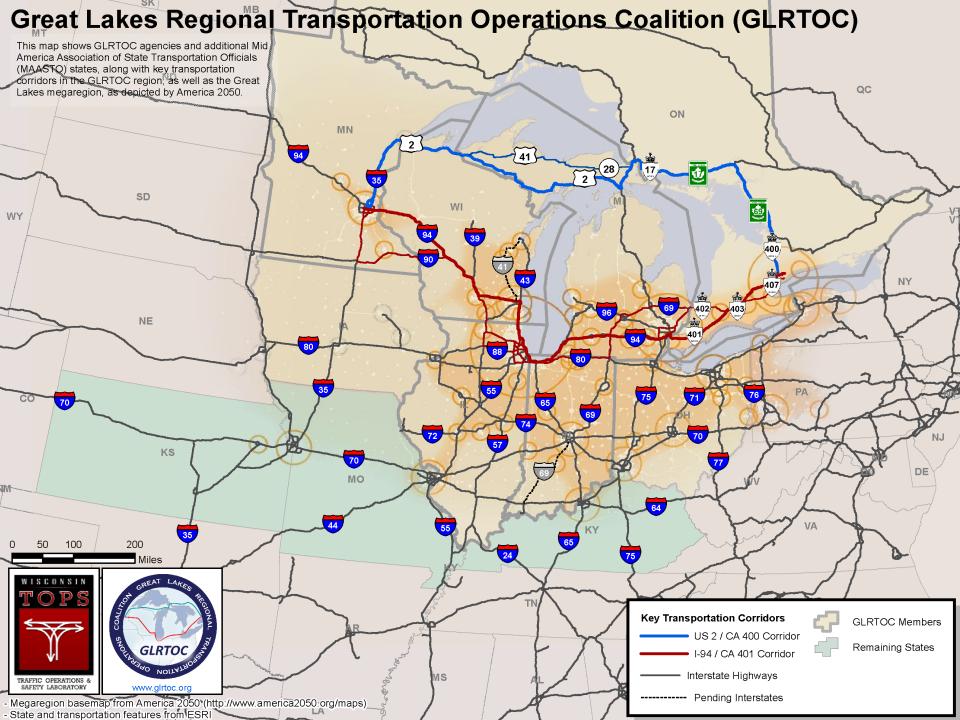


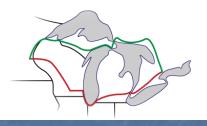






Improve cross-regional transportation operations in support of regional economic competitiveness and improved quality of life.





Online Tour



www.glrtoc.org/tour



GLRTOC MCOM Steering Committee

Agency	Name	Title
Illinois DOT	Chuck Sikaras	Acting Chief, Intelligent Systems Unit
Illinois Tollway	John Benda	General Manager of Maintenance and Traffic
Indiana DOT	Ed Cox	Managing Engineer Corridor Operations
Indiana Toll Road	Robert Ladson	Infrastructure Manager
Iowa DOT	Scott Marler	Director of Traffic Operations
Michigan DOT	Tony Kratofil	Metro Region Engineer
Ministry of Transport Ontario	Peter Armoogam	Traffic Management Supervisor
Minnesota DOT	Jim Kranig	Metro RTMC Engineer
Ohio DOT	Mike Flynn	Assistant Director for Field Operations
Wisconsin DOT	Dewayne Johnson	Director of Traffic Operations



Lake Michigan Interstate Gateway Alliance (LMIGA)



- Founded 1993
- 1993—2006, Gary-Chicago-Milwaukee (GCM) ITS Priority Corridor
- Since 2006, broader operations and geographic extent
- Focus on traffic operations along major corridors in the greater Chicago region to improve safety and mobility



LMIGA Organization

- Wisconsin DOT
- Illinois DOT
- Indiana DOT
- Michigan DOT
- Illinois Tollway
- Chicago Skyway
- Indiana Toll Road

Coordination Work Group (CWG)

Interstate Highway Operations (IHO) Work Group

Traffic Center
Communications (TCC)
Subcommittee

Traffic Incident Management (TIM) Subcommittee



Current LMIGA Coverage Map

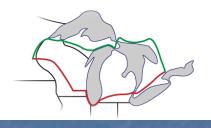




GLRTOC Strategy

- Three Strategic Focus Areas
 - Efficient freight operations
 - Reliable mobility
 - TIM / ETO





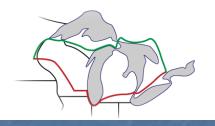
GLRTOC MCOM FFY '11 Award

2013 - 2015

- Two Projects:
 - Center to Center Communications
 - Smart Work Zone Coordination







Project 1. Connected Centers and GTIS Expansion

- Minnesota DOT and Illinois DOT Lead
- Emphasizes coordination at the megaregion scale for major incidents or weather events
 - Systems Engineering subcontract with Athey Creek
- Expands Gateway Traveler Information System
 - GTIS Expansion by UIC



Project 2. Smart Work Zone Coordination

- Three tasks:
 - Annual work zone review enhancements
 - Work zone mapping application
 - Work zone performance monitoring

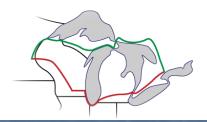




1. Annual Work Zone Review

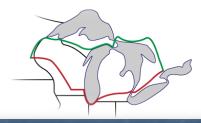
- LMIGA has been doing this for years for the Chicago region
- Among the first efforts of GLRTOC
- Held first week of February in Chicago

2011 Great Lakes I-94 / Hwy 401 Workzone Review Great Lakes Regional Transportation Operations Coaltion (GLRTQC)									
Great Lakes Regional Transportation Operations Coaltion (GLRTOC) March 3, 2011									
Map ID	Map ID Route Location Direction Distance Dates Type								
MINNESOTA									
1	1-35	Central Ave to Garfield Ave - Duluth	Both	3 mi	April- October	Reconstruct	Capacity reduction		
2	I-35	Boundary Ave to 26th Ave in Duluth	Both	10 mi	April- November	Reconstruct	Capacity reduction		
3	1-35	Near CTH 13/Midway Rd - St. Louis County	Both	1 mi	July- September	Bridge repair	Capacity reduction		
4	I-35	TH 33, TH 35, and TH 23 - Carlton and Pine Counties	Both		April-June	Bridge reconstruct	Periodic capacity reduction		
5	1-35	Hinckley and Moose Lake	Both	30 mi	May- November	Bridge repair	Capacity reduction		
6	I-35	Hwy 8 to Hwy 95 in North Branch	Both	16 mi		Resurface	Capacity reduction		



2. Work Zone Mapping Application





Wiln

Map ID

IL-10

Glenview

Great Lakes Regional Transportation Operations Coalition

2012 Work Zones

Click and drag the slides to filter work zones by impact severity and by month.

Click the work zones on the map to view work zone attributes.

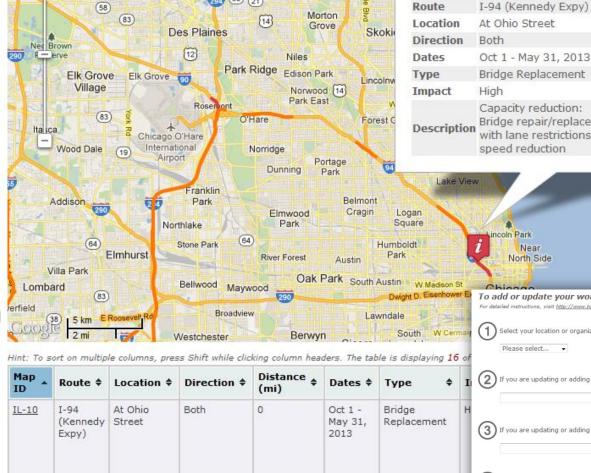
- ☐ Show GLRTOC corridor routes
- Show work zones outside the corridors
- Show work zone labels

Impact Estimate Medium - High

Time Frame

Enter a Map ID to zoom to a workzone that meets your selected criteria:

Go

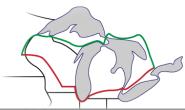


294 (58) (21)

Capacity reduction: Bridge repair/replacement with lane restrictions, speed reduction incoln Park Near North Side To add or update your work zone information: For detailed instructions, visit http://www.topslab.wisc.edu/its/qlrtoc/qlrtoc upload instructions.pdf Select your location or organization: Please select... -If you are updating or adding work zone locations, browse to your KML file: If you are updating or adding work zone attributes, browse to your CSV file: Username Upload Work Zones Password Remember Me

www.glrtoc.org/workzones

Mt Prospect





Great Lakes Regional Transportation Operations Coalition

Work Zone and Special Event Mapping





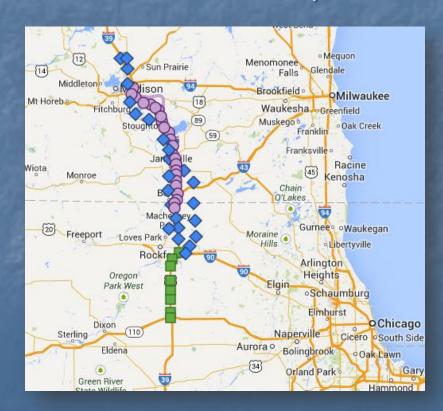
3. Smart Work Zone Monitoring

Pilot test segment is I-39/90 between Madison,

WI and Rockford, IL

65-mile mostly rural corridor

- Minimal detection available
- Three agencies
- Multiple medium and high impact work zones





GLRTOC MCOM FFY '12 Award

2014 - 2016

- Three Projects:
 - Interstate Corridor Performance Management
 - Interstate Highway Work Zone Coordination
 - Connected Centers Implementation

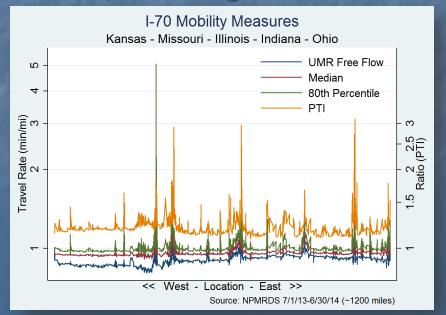


1. Interstate Corridor Performance Management

- Assess agency best practices, guide related national efforts
- Periodic reporting, after actions, investigations



www.glrtoc.org/map/npmrds/pti2013





2. Interstate Highway Work Zone Coordination

- From annual to daily collaboration
- Expand smart work zone data and dissemination
- Best practices integration





3. Connected Centers Implementation

Implementing prior Connected Centers project recommendations



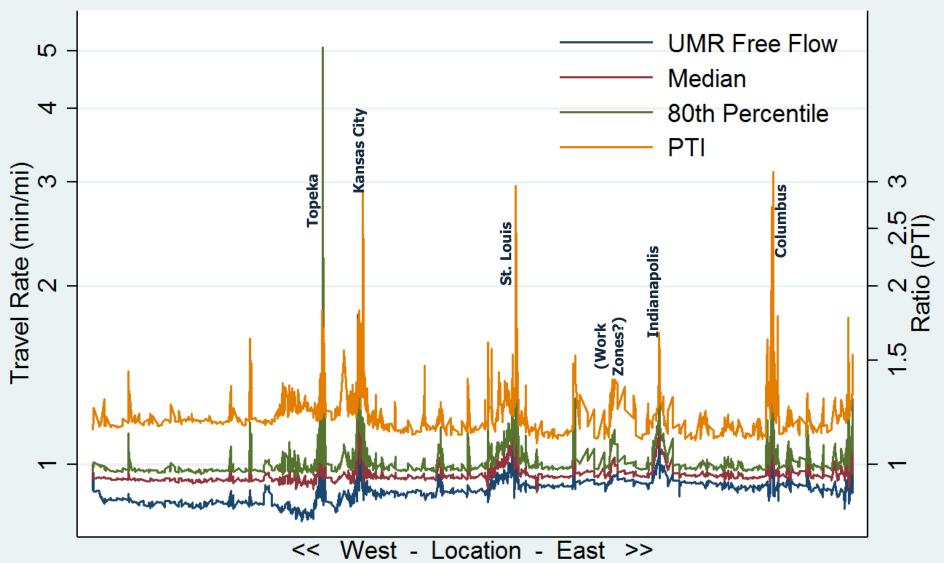


Work Zone Performance Impacts

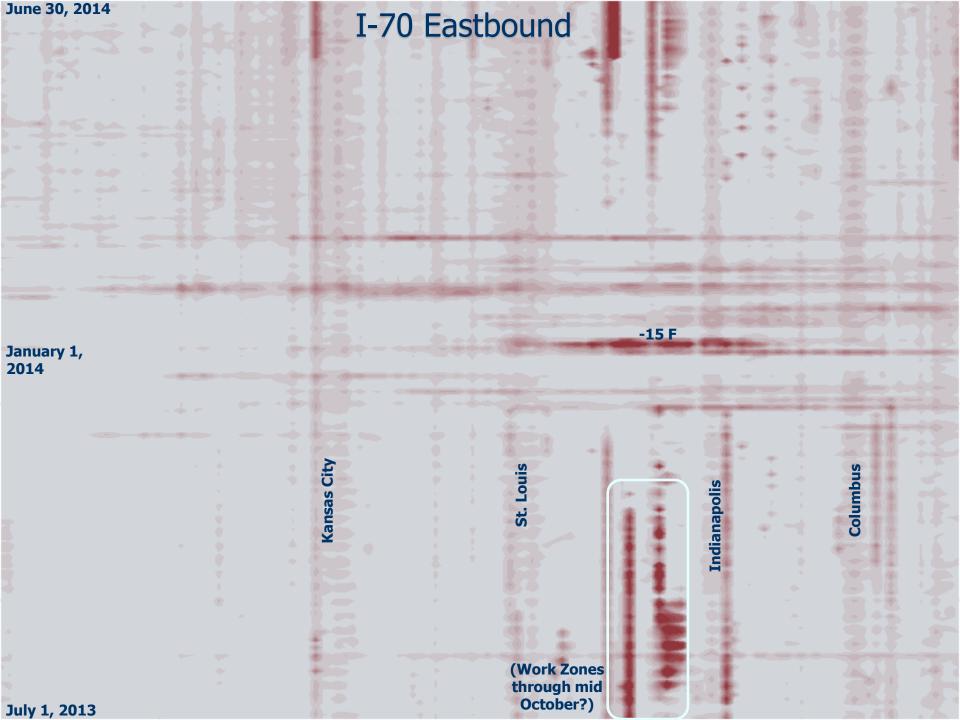
- Two Examples from 2013-2014:
 - I-70 in rural Illinois and Indiana
 - I-94 in Wisconsin and Indiana

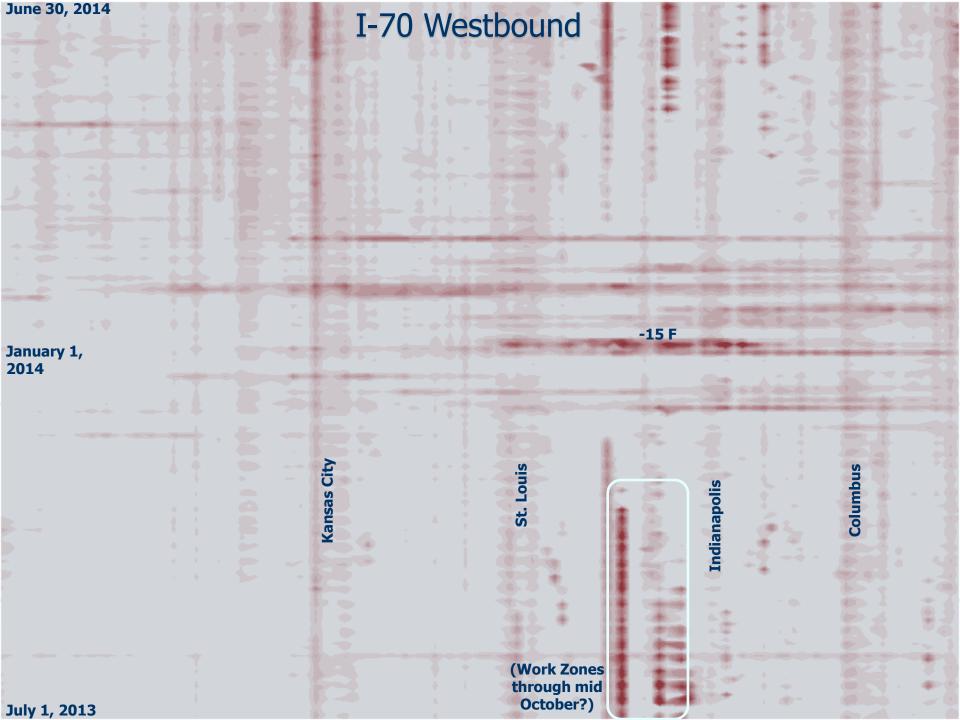
I-70 Mobility Measures

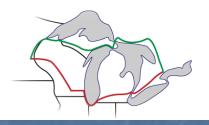
Kansas - Missouri - Illinois - Indiana - Ohio



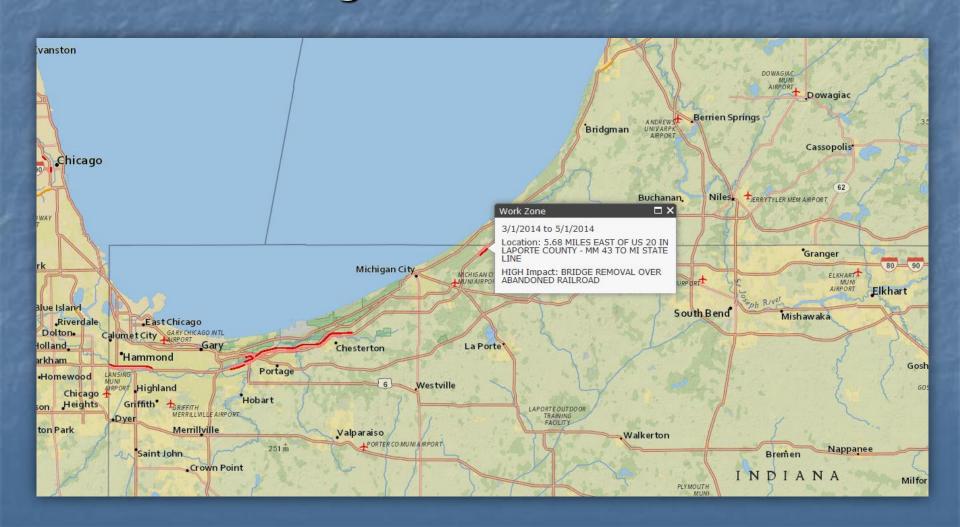
Source: NPMRDS 7/1/13-6/30/14 (~1200 miles)







I-94 Bridge Removal in Indiana





I-94 Bridge Removal in Indiana

May								
Su	Мо	Tu	We	Th	Fr	Sa		
				1	2	3		
4	5	6	7	8	9	10		
11	12	13	14	15	16	17		
18	19	20	21	22	23	24		
25	26	27	28	29	30	31		

June								
Su	Мо	Tu	We	Th	Fr	Sa		
1	2	3	4	5	6	7		
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30							

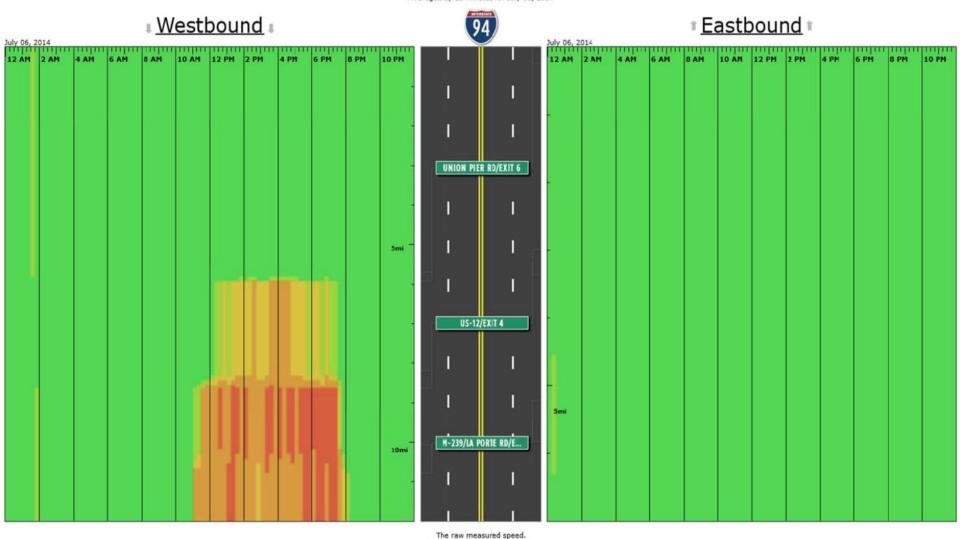
July								
Su	Мо	Tu	We	Th	Fr			
		1	2	3	4	5		
6	7	8	9	10	11	12		
13	14	15	16	17	18	19		
20	21	22	23	24	25	26		
27	28	29	30	31				

August								
Su	Мо	Tu	We	Th	Fr			
					1	2		
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		
24	25	26	27	28	29	30		
31								

	September								
Su	Мо	Tu	We	Th	Fr	Sa			
	1	2	3	4	5	6			
7	8	9	10	11	12	13			
14	15	16	17	18	19	20			
21	22	23	24	25	26	27			
28	29	30							

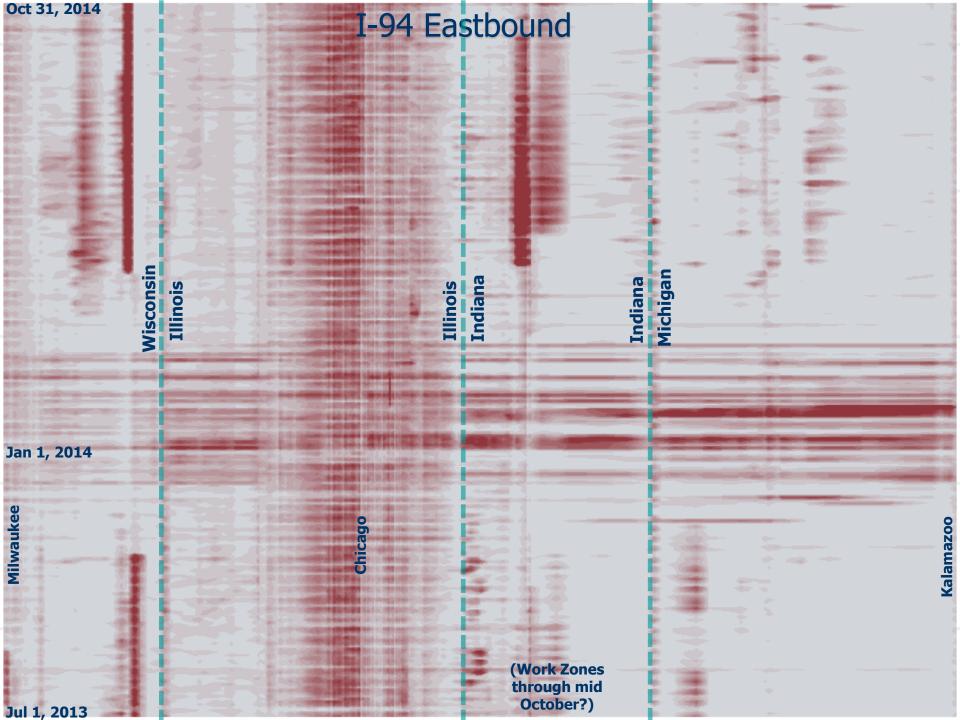
Speed on I-94

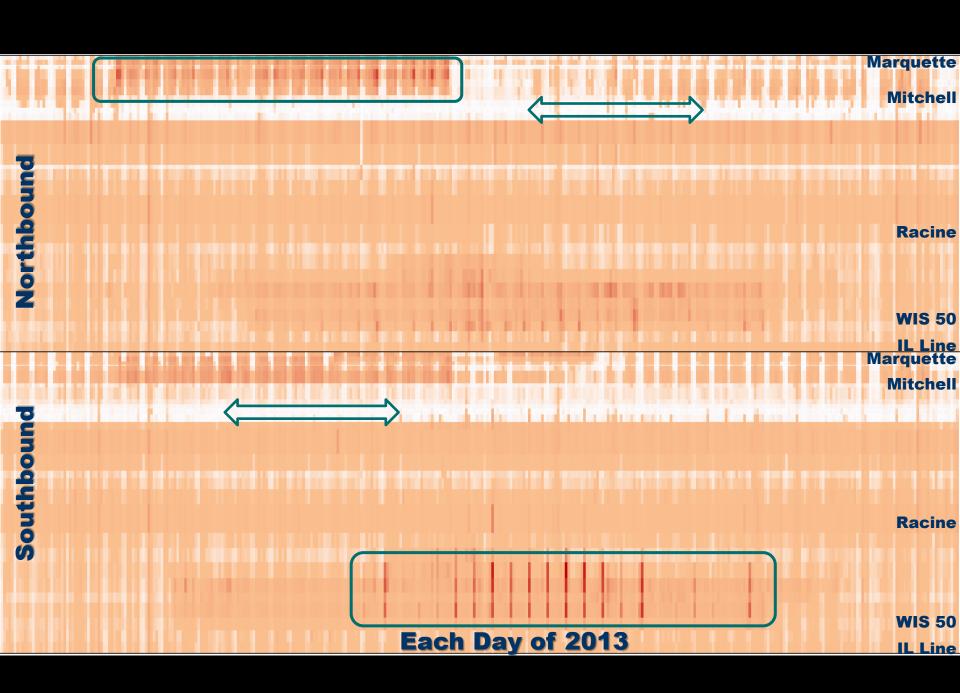
Averaged by 15 minutes for July 06, 2014

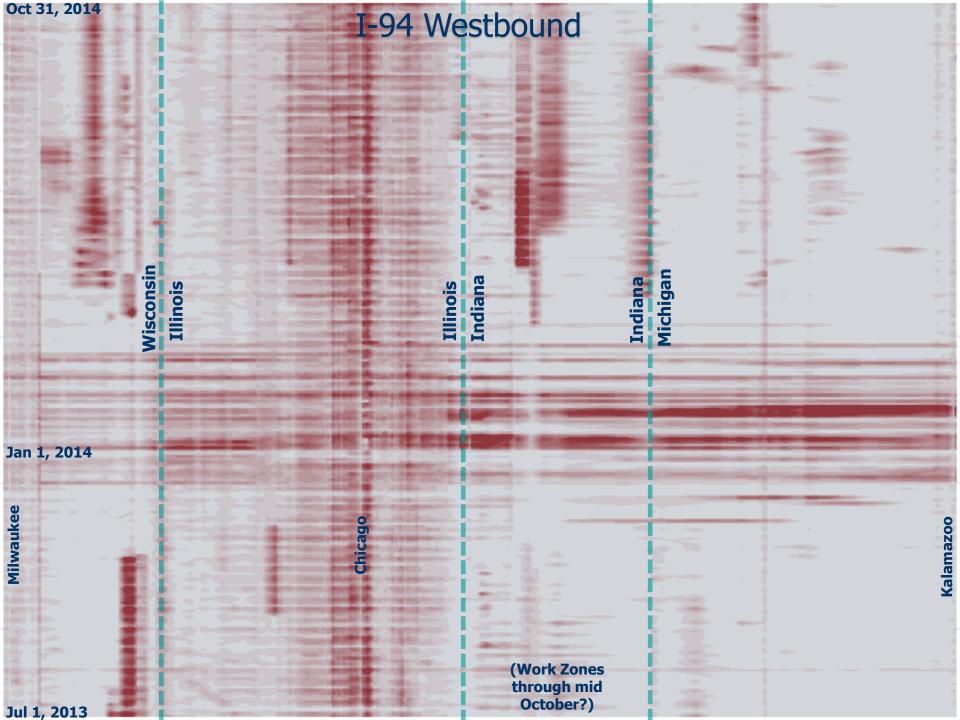


[0]10 |20 |30 |40 |50





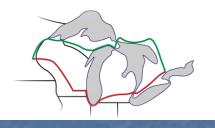






Upcoming Events

- February 6-7: Mid-West Truck & Trailer Show
- February 10: GLRTOC Monthly Call
 - 2nd Tuesday of each month
- February 18: LMIGA Meetings
- May: North/West Passage, AASHTO
- August: NRITS, MAASTO
- September: Ohio Freight / MAFC, AASHTO
- October: GLRTOC Annual Meeting in Toronto



For more information, please visit: www.glrtoc.org

Or contact:

Peter C. Rafferty, PE, PTOE, AICP GLRTOC Administrator

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Email: prafferty@wisc.edu